

ABSTRACT OF THE DISCLOSURE

A printing apparatus is provided. The apparatus includes a pressurized source of a thermodynamically stable mixture of a fluid and a marking material. Portions of a printhead define a delivery path, which is connected to the pressurized source. The printhead includes a discharge device having an outlet with a portion of the discharge device being positioned along the delivery path. The discharge device is shaped to produce a shaped beam of the marking material. The fluid is in a gaseous state at a location beyond the outlet of the discharge device. An actuating mechanism is positioned along the delivery path and has an open position at least partially removed from the delivery path.

10016034-139601